

# Executive Summary Report

## SMOG CHECK Statewide

November 2006

### 1. Testing Volume

	Total	Failed	Percent (%) Fail
Initial Test	680,221	89,455	13.15%
Total	796,874	116,054	14.56%

### 2. Certification Volume

	Cert. Issued	Percent (%) Cert. Issued	No Cert.	Percent (%) No Cert.
Initial Test	573,553	84.32%	106,668	15.68%
Total	657,627	82.53%	139,247	17.47%

### 2a. Certification Volume (Test Only)

	Cert. Issued	Percent (%) Cert. Issued	No Cert.	Percent (%) No Cert.
Initial Test	343,658	84.83%	61,442	15.17%
Total	395,718	83.83%	76,352	16.17%

### 3. Initial Test Failures by Failure Type

	Failed	Percent (%) Fail
Gross Polluters	16,975	2.50%
All Emissions	53,392	7.85%
All Visual	9,845	1.45%
All Functional	28,299	4.16%
OBDII	24,499	3.60%
Overall	89,455	13.15%

### 4. Initial Test Failures by Program Area

Program Areas	Initial Tests	Failed	Percent (%) Failed	G.P.	Percent (%) G.P.
Enhanced	536,751	72,280	13.47%	13,489	2.51%
Partially Enhanced	32,100	4,720	14.70%	889	2.77%
Basic	61,361	7,238	11.80%	1,581	2.58%
Change of Ownership	5,416	744	13.74%	222	4.10%
No Program	5	0	0.00%	0	0.00%
Unknown Program	44,588	4,473	10.03%	794	1.78%
Total Program Area	680,221	89,455	13.15%	16,975	2.50%

### 5. Initial Test Failures by Station Type

Station Types	All Tests Performed	Failed	Percent (%) Failed	G.P.	Percent (%) G.P.
Test Only	405,100	59,518	14.69%	11,990	2.96%
Regular	232,526	24,097	10.36%	3,818	1.64%
Basic Area Dealer	4,615	241	5.22%	34	0.74%
Gold Shield in Enhanced Area	24,099	3,453	14.33%	614	2.55%
Gold Shield in Basic Area	6,519	1,042	15.98%	249	3.82%
Gold Shield in COO Area	3,750	487	12.99%	158	4.21%
Business Fleet	30	2	6.67%	0	0.00%
Permanent Fleet Registered	179	7	3.91%	0	0.00%
Referee	814	384	47.17%	78	9.58%
Government Fleet	2,589	224	8.65%	34	1.31%
Total	680,221	89,455	13.15%	16,975	2.50%

### 5.a. Initial Tests at Test-Only Stations

	Initial Tests	Cert. Issued
Volunteers	175,838	153,661
Directed Vehicles	229,262	189,997
Total	405,100	343,658

### 5.b. Initial Tests at Gold Shield Stations

	Initial Tests	Cert. Issued
Volunteers	34,012	28,408
Directed Vehicles	356	49
Total	34,368	28,457

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## 6. Initial Tests by Vehicle Model Year

Model Year	Initial Test	Failed Overall	Percent (%) Fail Overall	Percent (%) Fail Emiss.	Percent (%) Fail G.P.	Percent (%) Fail Funct.	Percent (%) Fail Visual	Percent (%) Fail OBDII
1960	1	1	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%
1967	1	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1972	1	1	100.00%	0.00%	0.00%	0.00%	100.00%	0.00%
1973	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1974	12	3	25.00%	16.67%	8.33%	16.67%	8.33%	0.00%
1975	25	11	44.00%	40.00%	24.00%	24.00%	8.00%	0.00%
1976	1,337	381	28.50%	21.62%	10.70%	14.96%	8.75%	0.00%
1977	2,144	550	25.65%	18.94%	9.00%	14.32%	7.00%	0.00%
1978	2,439	674	27.63%	20.83%	10.54%	14.68%	8.20%	0.00%
1979	2,983	828	27.76%	21.86%	10.29%	14.18%	7.81%	0.00%
1980	1,739	492	28.29%	23.00%	12.31%	14.49%	8.05%	0.00%
1981	2,070	590	28.50%	23.82%	11.64%	14.98%	8.12%	0.00%
1982	2,653	737	27.78%	23.29%	11.19%	15.19%	7.16%	0.00%
1983	3,032	920	30.34%	25.00%	12.10%	15.67%	7.32%	0.00%
1984	6,129	1,865	30.43%	25.52%	12.14%	15.09%	6.64%	0.00%
1985	8,317	2,408	28.95%	23.55%	11.17%	15.15%	6.08%	0.00%
1986	11,806	3,141	26.61%	21.29%	9.95%	14.25%	5.33%	0.00%
1987	15,248	4,071	26.70%	22.36%	8.76%	12.43%	4.34%	0.00%
1988	16,641	4,021	24.16%	19.54%	7.64%	11.91%	3.38%	0.00%
1989	22,959	4,968	21.64%	17.01%	6.22%	10.84%	3.10%	0.00%
1990	25,330	4,863	19.20%	15.28%	5.24%	8.76%	2.33%	0.00%
1991	29,670	5,296	17.85%	13.91%	4.45%	8.27%	1.76%	0.00%
1992	27,274	4,349	15.95%	12.47%	4.02%	6.81%	1.50%	0.00%
1993	32,875	5,894	17.93%	14.73%	3.33%	6.69%	1.53%	0.00%
1994	38,274	5,319	13.90%	11.01%	2.33%	5.27%	1.44%	0.00%
1995	38,950	4,903	12.59%	9.49%	2.05%	4.74%	1.27%	0.00%
1996	48,648	7,440	15.29%	5.70%	0.89%	1.35%	0.82%	10.30%
1997	40,240	5,580	13.87%	4.81%	0.89%	1.31%	0.83%	9.66%
1998	68,540	6,399	9.34%	2.53%	0.43%	0.68%	0.54%	6.88%
1999	43,659	3,390	7.76%	1.67%	0.33%	0.54%	0.43%	5.93%
2000	106,360	6,941	6.53%	0.98%	0.23%	0.54%	0.39%	5.25%
2001	32,816	1,580	4.81%	0.48%	0.09%	0.48%	0.22%	3.85%
2002	18,776	827	4.40%	0.32%	0.07%	0.32%	0.19%	3.54%
2003	9,658	344	3.56%	0.27%	0.07%	0.29%	0.19%	2.65%
2004	6,613	244	3.69%	0.26%	0.09%	0.23%	0.21%	2.75%
2005	5,675	205	3.61%	0.19%	0.09%	0.26%	0.37%	2.75%
2006	6,414	184	2.87%	0.14%	0.08%	0.12%	0.19%	2.46%
2007	908	35	3.85%	0.00%	0.00%	0.00%	0.00%	3.85%
2008	2	0	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total Model Year	680,221	89,455	13.15%	7.85%	2.50%	4.16%	1.45%	3.60%

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## 7. Referee Activity

	Certificates Issued
Certificate of Compliance	700
Certificate of Non Compliance	3
Parts Cost	86
Hardship Extensions	106
Exempt Vehicle	23
Exempted by Directive	130
Parts Exemption	0
Unknown Outcome	0
	<b>1,048</b>

## 8. Active Stations

	Station Count
Licensed Stations that did not Conduct a Test	1,338
Stations Locked-Out at Least Once	91
Stations Conducted at Least One Test	7,774

## 9. Active Technicians

		Technician Count	Daily Average
EA	Both Endorsement	10,591	5,802
EA	Gas Endorsement	18	0
EB	Both Endorsement	57	0
EB	Gas Endorsement	566	0
EU	Gas Endorsement	1	0
GU	Both Endorsement	20	0

## 10. Inspections Costs

	ASM Initial Test Count	Avg ASM Inspection Cost	TSI Initial Test Count	Avg TSI Inspection Cost	Total Initial Tests	Overall Average Inspection Cost
Test Only	360,905	48.32	34,546	48.47	395,451	48.33
Test and Repair	160,424	46.87	68,731	44.30	229,155	46.10
Test and Repair Dealer	15	50.27	4,581	46.53	4,596	46.54
Referee	545	30.00	158	30.00	703	30.00
Gold Shield in Enhanced Area	17,910	46.40	6,136	42.67	24,046	45.45
Gold Shield in Basic Area	16	65.06	6,555	35.81	6,571	35.89
Gold Shield in COO Area	504	64.18	3,713	49.91	4,217	51.62

## 11. Repair Costs

	All Cost Ranges	Repair Count	Average Cost	(All Cost Ranges) Repair Count	(All Cost Ranges) Average Cost
Regular Repairs	\$0-50	6,433	22.57	<b>21,314</b>	<b>203.96</b>
	\$51-150	5,674	100.14		
	\$151-250	3,492	199.62		
	\$251-450	3,545	334.14		
	Over \$450	2,170	807.51		
Cap Repairs	\$0-50	166	26.31	<b>3,082</b>	<b>323.06</b>
	\$51-150	373	104.98		
	\$151-250	561	201.06		
	\$251-450	1,154	345.55		
	Over \$450	828	532.11		
Total Repairs	\$0-50	5,763	22.85	<b>22,239</b>	<b>240.25</b>
	\$51-150	4,924	100.40		
	\$151-250	3,784	199.88		
	\$251-450	4,559	338.67		
	Over \$450	3,209	753.04		

## 12. CAP Repair Costs

	Total Vehicles	Average Repair Cost
Cap Repairs	3,082	323.06

## 13. Drill-Through

	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Basic	Test and Repair	41	7	0	1	2	4	2	1

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Basic	Test Only	27	6	1	2	2	2	3	2
Acceleration Simulation Mode (ASM)	Change of Ownership	Referee	0	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Change of Ownership	Test and Repair	14	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Business-Fleet	17	2	0	0	0	1	1	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in COO Area	31	7	0	0	2	5	2	0
Acceleration Simulation Mode (ASM)	Enhanced	Gold Shield in Enhanced Area	11,630	1,947	267	117	754	998	507	223
Acceleration Simulation Mode (ASM)	Enhanced	Government Fleet	0	108	10	0	48	50	13	2
Acceleration Simulation Mode (ASM)	Enhanced	Permanent Fleet Registered	73	6	0	0	4	2	0	0
Acceleration Simulation Mode (ASM)	Enhanced	Referee	256	260	46	122	53	123	89	146
Acceleration Simulation Mode (ASM)	Enhanced	Test and Repair	107,969	13,299	1,788	715	5,084	6,615	3,674	1,278
Acceleration Simulation Mode (ASM)	Enhanced	Test Only	292,535	53,031	10,667	2,939	11,997	35,408	17,475	5,763
Acceleration Simulation Mode (ASM)	Partial	Gold Shield in Enhanced Area	1,946	453	87	27	115	279	155	64
Acceleration Simulation Mode (ASM)	Partial	Government Fleet	0	2	1	0	1	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Referee	14	16	5	8	2	9	6	11
Acceleration Simulation Mode (ASM)	Partial	Test and Repair	13,996	2,551	457	150	626	1,571	837	272
Acceleration Simulation Mode (ASM)	Partial	Test and Repair Dealer	9	1	1	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Partial	Test Only	7,728	1,472	285	97	324	965	447	179
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in COO Area	1	1	0	0	0	1	0	0
Acceleration Simulation Mode (ASM)	Unknown Program	Gold Shield in Enhanced Area	1,217	224	42	12	90	121	62	21
Acceleration Simulation Mode (ASM)	Unknown Program	Government Fleet	0	76	13	0	10	61	9	0

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Acceleration Simulation Mode (ASM)	Unknown Program	Referee	57	28	6	8	11	10	10	15
Acceleration Simulation Mode (ASM)	Unknown Program	Test and Repair	14,472	1,561	222	88	645	776	355	154
Acceleration Simulation Mode (ASM)	Unknown Program	Test Only	11,166	1,636	331	106	531	984	448	189
Two Speed Idle (TSI)	Basic	Gold Shield in Basic Area	4,500	929	222	61	195	451	383	117
Two Speed Idle (TSI)	Basic	Gold Shield in COO Area	144	19	7	2	8	8	8	3
Two Speed Idle (TSI)	Basic	Gold Shield in Enhanced Area	2,499	451	113	31	119	211	179	64
Two Speed Idle (TSI)	Basic	Government Fleet	0	12	1	0	5	2	5	0
Two Speed Idle (TSI)	Basic	Referee	38	31	7	9	8	11	21	14
Two Speed Idle (TSI)	Basic	Test and Repair	35,157	4,629	973	274	1,254	1,985	1,861	574
Two Speed Idle (TSI)	Basic	Test and Repair Dealer	3,149	188	28	12	61	63	64	14
Two Speed Idle (TSI)	Basic	Test Only	6,019	964	229	56	254	461	321	115
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Basic Area	44	15	6	2	3	9	4	4
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in COO Area	1,633	318	111	22	51	194	116	45
Two Speed Idle (TSI)	Change of Ownership	Gold Shield in Enhanced Area	137	30	7	2	5	14	16	4
Two Speed Idle (TSI)	Change of Ownership	Referee	2	2	1	0	1	1	2	1
Two Speed Idle (TSI)	Change of Ownership	Test and Repair	1,885	241	62	16	46	126	99	31
Two Speed Idle (TSI)	Change of Ownership	Test Only	725	132	35	10	29	68	48	19
Two Speed Idle (TSI)	Enhanced	Gold Shield in Basic Area	323	37	5	3	18	10	11	5
Two Speed Idle (TSI)	Enhanced	Gold Shield in COO Area	339	29	7	4	11	10	7	4
Two Speed Idle (TSI)	Enhanced	Gold Shield in Enhanced Area	1,979	258	73	18	92	125	72	38
Two Speed Idle (TSI)	Enhanced	Government Fleet	0	21	6	0	4	11	4	2
Two Speed Idle (TSI)	Enhanced	Referee	39	22	6	12	4	10	2	15
Two Speed Idle (TSI)	Enhanced	Test and Repair	16,125	1,179	209	52	563	399	249	111
Two Speed Idle (TSI)	Enhanced	Test and Repair Dealer	412	25	2	1	22	2	1	1
Two Speed Idle (TSI)	Enhanced	Test Only	22,203	2,043	403	87	946	795	410	175
Two Speed Idle (TSI)	Partial	Gold Shield in Basic Area	39	5	1	0	1	3	1	0
Two Speed Idle (TSI)	Partial	Gold Shield in COO Area	29	3	1	0	2	1	1	0

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	Program Areas	Station Types	Certificates Issued	Total Failed	Gross Polluters	Tampered	All OBD-II Tests	All Emission Tests	All Functional Tests	All Visual Tests
Two Speed Idle (TSI)	Partial	Gold Shield in Enhanced Area	177	23	9	3	6	13	4	4
Two Speed Idle (TSI)	Partial	Test and Repair	1,379	142	34	6	43	66	46	16
Two Speed Idle (TSI)	Partial	Test and Repair Dealer	37	1	1	0	0	1	0	0
Two Speed Idle (TSI)	Partial	Test Only	621	47	7	6	15	14	13	10
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Basic Area	365	55	15	3	24	20	15	6
Two Speed Idle (TSI)	Unknown Program	Gold Shield in COO Area	966	108	32	6	25	60	34	12
Two Speed Idle (TSI)	Unknown Program	Gold Shield in Enhanced Area	433	67	16	3	29	31	21	9
Two Speed Idle (TSI)	Unknown Program	Government Fleet	0	4	3	0	0	4	0	0
Two Speed Idle (TSI)	Unknown Program	Referee	34	14	7	0	1	12	1	10
Two Speed Idle (TSI)	Unknown Program	Test and Repair	5,593	486	73	35	237	143	136	64
Two Speed Idle (TSI)	Unknown Program	Test and Repair Dealer	545	25	2	1	15	3	4	2
Two Speed Idle (TSI)	Unknown Program	Test Only	2,632	185	32	8	98	58	39	23
UnKnown TestType	Enhanced	Referee	5	5	0	0	0	5	0	5
UnKnown TestType	Unknown Program	Referee	3	3	0	0	0	3	0	3

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